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Name of Journal: *World Journal of Radiology*

Manuscript NO: 63495

Manuscript Type: MINIREVIEWS

Thoracic Imaging Outcomes in COVID-19 Survivors

Imaging Outcomes in COVID-19 Survivors

Abstract

The Coronavirus disease 2019 (COVID-19) pandemic presents a significant global public health challenge. One in five individuals with COVID-19 presents with symptoms that last for weeks after hospital discharge, a condition termed "long COVID". Thus, efficient follow-up of patients is needed to assess the resolution of lung pathologies and systemic involvement. Thoracic imaging is multimodal and involves using different forms of waves to produce images of the organs within the thorax. In general, it includes chest X-ray (CXR), computed tomography (CT), lung ultrasound (LUS) and magnetic resonance imaging (MRI) techniques. Such modalities have been



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Thoracic imaging tests for the diagnosis of COVID-19

<https://pubmed.ncbi.nlm.nih.gov/32997361>

Our findings indicate that chest CT is sensitive but not specific for the diagnosis of COVID-19 in suspected patients, meaning that ... Thoracic imaging tests for the diagnosis of COVID-19 Cochran...

Cited by: 7

Author: Nayaar Islam, Nayaar Islam, Jean-Paul S...

Publish Year: 2020

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Thoracic imaging—radiology and CT scans—can play a complementary role to real-time reverse transcriptase polymerase chain reaction (rRT-PCR) in the diagnosis, prognosis, and triaging of patients...

[PDF] COVID-19: Myocardial Injury in Survivors

<https://www.ahajournals.org/doi/pdf/10.1161/CIRCULATIONAHA.120.049252>

probable likelihood of COVID-19 infection on thoracic imaging. A CMR scan (1.5T, Magnetom Aera, Siemens Healthcare) was offered to patients discharged with a COVID-19 diagnosis and myocardial...

Patient outcomes after hospitalisation with COVID-19 and ...

<https://thorax.bmj.com/content/76/4/399> ▼

Apr 01, 2021 - The longer-term consequences of SARS-CoV-2 infection are uncertain. Consecutive patients hospitalised with COVID-19 were prospectively recruited to this observational study (n=163). ...

Cited by: 21

Author: David T Arnold, Fergus W Hamilton, Alice...

Publish Year: 2021

COVID-19 in patients with thoracic malignancies (TERAVOLT ...

<https://pubmed.ncbi.nlm.nih.gov/32539942>

Background: Early reports on patients with cancer and COVID-19 have suggested a high mortality rate compared with the general population. Patients with thoracic malignancies are thought to be particular...

COVID-19 Imaging: What We Know Now and What Remains ...

<https://pubs.rsna.org/doi/10.1148/radiol.2021204522>

Feb 09, 2021 - Kamnietzky et al. described a retrospective cohort of 62 patients (65% men, mean age

Thoracic imaging outcomes in COVID-19 survivors



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Thoracic imaging tests for the diagnosis of COVID-19

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Our findings indicate that chest CT is sensitive but not specific for the diagnosis of COVID-19 in suspected **patients**, meaning that ... **Thoracic imaging** tests for the diagnosis of COVID-19 Cochrane Database Syst Rev. 2020 Sep 30;9:CD013639. doi: 10.1002/14651858.CD013639.pub2. ...

Cited by: 13

Author: Nayaar Islam, Nayaar Islam, Jean-Paul Sal...

Publish Year: 2020

Thoracic Imaging Found to Play Useful Role in COVID-19 ...

<https://reports.mountsinai.org/article/pulm2021-01-ct-scans-and-covid-19> ▼

Thoracic imaging—radiology and CT scans—can play a complementary role to real-time reverse transcriptase polymerase chain reaction (rRT-PCR) in the diagnosis, prognosis, and triaging of **patients** with **COVID-19**, even more so when augmented by artificial intelligence. As one of the first radiologists in the country to examine CT scans from **patients** in China infected with the virus now known as SARS ...

Thoracic imaging tests for the diagnosis of COVID-19

<https://pubmed.ncbi.nlm.nih.gov/33242342>

For chest CT in suspected **COVID-19** participants (31 studies, 8014 participants, 4224 (53%) cases) the sensitivity ranged from 57.4% to 100%, and specificity ranged from 0% to 96.0%. The pooled sensitivity of chest CT in suspected **COVID-19** participants was 89.9% (95% CI 85.7 to 92.9) and the pooled specificity was 61.1% (95% CI 42.3 to 77.1).

Long-term Pulmonary Consequences of Coronavirus Disease ...

<https://pubmed.ncbi.nlm.nih.gov/32404798>

Long-term Pulmonary Consequences of Coronavirus Disease 2019 (COVID-19): What We Know and What

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Thoracic imaging tests for the diagnosis of COVID-19

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Our findings indicate that chest CT is sensitive but not specific for the diagnosis of **COVID-19** in suspected **patients**, meaning that ... **Thoracic imaging** tests for the diagnosis of **COVID-19** Cochrane...

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Author: Nayaar Islam, Nayaar Islam, Jean-Paul Sal...

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Thoracic imaging—radiology and CT scans—can play a complementary role to real-time reverse transcriptase polymerase chain reaction (rRT-PCR) in the diagnosis, prognosis, and triaging of **patients**...

COVID-19 in patients with thoracic malignancies (TERAVOLT ...

<https://pubmed.ncbi.nlm.nih.gov/32539942>

Findings: Between March 26 and April 12, 2020, 200 patients with **COVID-19** and **thoracic cancers** from eight countries were identified and included in the TERAVOLT registry; median age was 68·0 years (61·8-...

Cited by: 221

Author: Marina Chiara Garassino, Jennifer G. Whis...

Publish Year: 2020

COVID-19 patients and the radiology department - advice ...

<https://pubmed.ncbi.nlm.nih.gov/32314058>

This document from the European Society of Radiology (ESR) and the European Society of **Thoracic Imaging** (ESTI) aims to present the main **imaging** features, and the role of CT scan in the early diagnosis...

Cited by: 192

Author: Marie Pierre Revel, Anagha P. Parkar, Anag...

Publish Year: 2020

COVID-19 Imaging: What We Know Now and What Remains ...

<https://pubs.rsna.org/doi/10.1148/radiol.2021204522>

Why Has Ct Detection vs. RT-P...

What Is The Role of Artificial Int...

What Are Th



The **diagnosis** of viral infection, including SARS-CoV-2, relies on RT-PCR test to identify genetic material in biological (47, 48). However, the availability of RT-PCR was **limited in the first half of 2020** and for this